

CLAIMS

1. A power supply system comprising:

a power line for supplying power from a distributed power source to a load upon interruption of electric service from a power system, the load being supplied with power from the power system at normal times;

a first switch for connecting the load with the power system at the normal times and disconnecting them upon the interruption of the electric service; and

a second switch for connecting the load with the power line upon the interruption of the electric service and disconnecting them at normal times.

2. The power supply system according to Claim 1, further comprising a third switch for connecting the distributed power source with the power line upon the interruption of the electric service and disconnecting them at the normal times.

3. The power supply system according to Claim 1, further comprising a command device for issuing a command signal for controlling the opening/closing of each of the first and second switches.

4. The power supply system according to Claim 2, further comprising a command device for issuing a command signal for controlling the opening/closing of each of the first, second, and third switches.

5. The power supply system according to Claim 3 or 4, wherein the load is located on the power demand side, and wherein the command device is located on the power supply

side.

6. A power supply system comprising:

a switch for connecting a plurality of loads with a power system at normal times and disconnecting them upon interruption of electric service, the plurality of loads being supplied with power from the power system at the normal times and supplied with power from an distributed power source upon the interruption of the electric service from the power system;

a first control unit for adjusting the power consumption of the plurality of loads;

a second control unit for adjusting the power generation amount of the distributed power source; and

a command device for issuing command signals to one of the control units and/or the other of the control units for controlling so that the power consumption and the power generation amount get close to each other, during the interruption of the electric service from the power system.

7. The power supply system according to Claim 6, wherein the load is located on the power demand side, and wherein the command device is located on the power supply side.

8. A method for supplying power upon interruption of electric service, the method comprising:

a first step of starting supplying power from a distributed power source to a plurality of loads on the power demand side, the plurality of loads being supplied with power from a power system at normal times; and

a second step of adjusting the power consumption of the

plurality of loads and/or the power generation amount of the distributed power source so that the power consumption and the power generation amount get close to each other, during interruption of electric service from the power system.

9. The method for supplying power upon interruption of electric service according to Claim 8, wherein the first step includes reducing the power consumption of a predetermined load out of the plurality of loads.

10. The method for supplying power upon interruption of electric service according to Claim 8 or 9, wherein the first step is executed before the interruption of the electric service from the power system.

11. The method for supplying power upon interruption of electric service according to Claim 8 or 9, wherein the plurality of loads and the power system are disconnected between the first step and the second step.

12. The method for supplying power according to Claim 8, wherein the power consumption and/or the power generation amount is controlled by a command signal from the power supply side.